Series PMC
Power Protector - Pluggable Module

PMC Series

- Use for Main Power Supplies for general protection of electrical and electronics equipments and appliance from Surge Transient.
- Suitable for Tele-communication, Control, Computer, Networking, Housing and many other Systems.
- Can be installed in distribution boards and housing consumer distribution board.
- Suitable for TN, TT and IT power supply systems.
- Protector for Single Phase supply 220 / 230 / 240VAC, 40/60Hz.
- Protector for Three Phase supply 380 / 400 / 415VAC, 40/60Hz.

Product Features

- Maintenance free.
- Parallel Connection allows easy installation.
- Easy replacement of damage units without interrupting the power supply.
- Suitable for TN, TT and IT supplies.
- High maximum discharge current of 40kA .
- Flexible combination allow 4 and 3+1 configuration protection modes for three phase supplies and 2 and 1+1 configuration protection modes for single phase supplies.
- Mechanical tripping device allows safety disconnect due to faulty supplies.
- Continuous and repeated protection in intense environment.

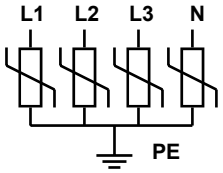
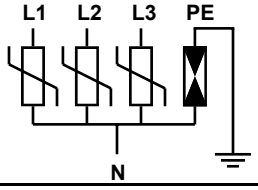
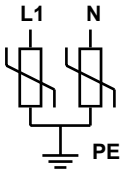
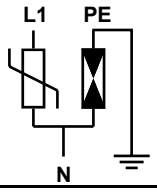
Installation

The protector is installed in parallel to the power supply. The protector should be installed at the load side of the incoming main breakers before any outgoing breaker.

It is recommended to fuse the leads of the protector with MCCB or HRC fuses. Please see product specification sheet for MCCB or HRC fuse ratings.

Selection

It is important to select the correct combination to ensure maximum protection without impairment to the system. Below are the different combination pre-assemble to ensure the best selection.

Part No.	Voltage Ratings (V_{rms})	Supply Type	Supply Voltage	Symbol	Description
PM275C-4 PM385C-4	275 385	TN-S, TN-C, TN-C-S and IT System	3 phase 415VAC 3 phase 400VAC 3 phase 380VAC		L1 to PE L2 to PE L3 to PE N to PE
PM275C-3+1 PM385C-3+1	275 385	TT System	3 phase 400VAC 3 phase 380VAC		L1 to N L2 to N L3 to N N to E (GDT)
PM275C-2 PM385C-2	275 385	TN-S, TN-C, TN-C-S and IT System	1 phase 240VAC 1 phase 230VAC 1 phase 220VAC		L to E N to E
PM275C-1+1 PM385C-1+1	275 385	TT System	1 phase 230VAC 1 phase 220VAC		L to N N to E (GDT)
PM275C PM385C PM930C	275 385 500	Replacement Module	240/415VAC 230/400VAC 220/380VAC		275V Protection Devices 385V Protection Devices 500V GDT

Note: The company reserve the right to make changes to the product design and specification without prior notice due to continuous product improvement policy

Newey & Klips

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Testing Specification

- Tested to 6kV 1.2/50µs, 3kA 8/20µs, Accordance to:
  - BS6651:1999, Appendix C, Cats C-Low & B-High
  - IEEE C62.41-1991, Location Cats C1 & B3
  - SS CP33:1996, Appendix F
  - AS 1768-1991, Appendix B, Cat B
  - UL 1449 mains wire-in

Testing Specification

- Test Class II in accordance to IEC61643-1
- Test Type II in accordance to EN 61643-1

Product Specification

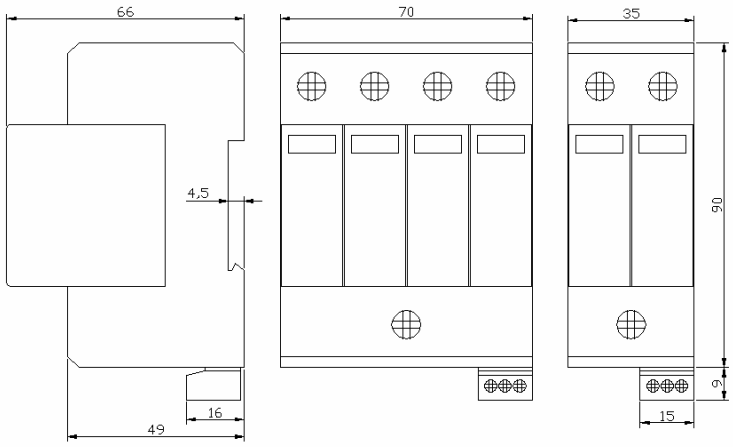
Series Model	**PM275C**	**PM385C**	**PM930C**
Nominal Voltage V_n (RMS)	1 phase 220/230/240V and 3 phase 380/400/415V		
Maximum Operational Voltage V_{max}(RMS)	275V	385V	500V
Operational Frequency	40-60Hz	40-60Hz	40-60Hz
Clamping or Let-through Voltage at I_n V_{pn}	<1.2kV	<1.8kV	<1.8kV
Clamping or Let-through Voltage V_p			
6kV 1.2/50µs, 3kA 8/20µs	<850V	<1100V	<1100V

Model No.	**PM275C**	**PM385C**	**PM930C**
Nominal Discharge Current (I_n) (8/20µs)	20kA	20kA	20kA
Maximum Discharge Current (I_{max}) (8/20µs)	40kA	40kA	50kA
Maximum Short Circuit Current	50kA	50kA	-
Maximum back-up fuse	160 AgL	160 AgL	160 AgL

Other Specification			
Operation Temperature	-40 to 70°C	-40 to 70°C	-40 to 70°C
Mounting	DIN rail according to EN50022		
Degree of Protection (built-in)	IP20	IP20	IP20
Case Flammability	UL94-V2	UL94-V2	UL94-V2
Conductor Size (mm^2)	25	25	25
Weight (kg) (1P, 1+1P, 2P, 3P, 3+1P, 4P)	0.06, 0.11, 0.11, 0.15, 0.22, 0.22		

Physical Dimension (mm)

Pre-assemble Width
1+1 pole & 2 pole — 35 mm
3+1 pole & 4 pole — 70 mm



Remote Contact Ratings			
Maximum Current	1A	1A	1A
Maximum Voltage	125VAC or 24VDC		

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